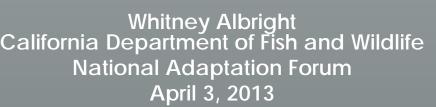
# Building Staff Capacity to Address Climate Change: CA DFW Climate College









## Background: CA Department of Fish and Wildlife (CDFW)

- Mission: Manage California's diverse fish, wildlife, and plant resources, and the habitats upon which they depend for their ecological values and for their use and enjoyment by the public.
- Public Trust Doctrine: Wildlife is owned by no one and held in trust by governments for the benefit of present and future generations.



Photos courtesy of Tim Hovey, Dave Feliz, and Meredith Osborne, CDFW

## **CDFW Branches & Regions**

- Administration
- Enforcement
- Resource Management& Policy (Policy Branches)
  - Wildlife
  - Water
  - Habitat Conservation
  - Fisheries
  - Data
  - Climate Science & Renewable Energy
- Regional Operations (Implementation)





## Background: DFW Climate Science Program

#### INTEGRATION

Integrating climate change into DFW programs and policies



#### **ACTION**

Products and projects that are meeting our conservation objectives

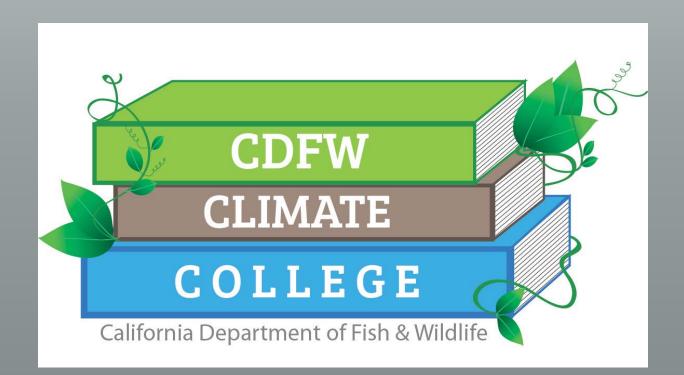
### **DFW Climate College**

#### **Outline**

- Goals
- Planning the course
- Course structure and features
  - The course begins!
  - Where are we now?
  - Where are we going?
    - Lessons learned

#### Goals

- Provide a foundation of climate change knowledge for ALL staff
- Build a climate community at DFW that includes our partners
- Promote networking across branches/regions AND with our partners



#### Planning the Course: A Florida Model



Doug Parsons and Laura Jerome
Florida Fish and Wildlife Conservation Commission

## Planning the Course: Climate Training Work Group



**CDFW Climate Change Stakeholders** 

## Course Structure & Features: Components

- Monthly lectures (10 months)
- Recommended readings
- Participation in on-line forum
- Final project
- Opportunities for Certification
- Awards ceremony

#### Course Structure & Features: Schedule

Welcome and Introduction

Climate 101; understanding the basics of climate science and what we can do about it

What's happening? Projected climate change impacts to California

The National Response: What are other state and federal partners doing?

Go Big or Go Home: Collaborative Partnerships in a Changing Climate

Climate Literacy and Education

Energy-Climate-Human Nexus: Climate Action cobenefits for Natural Resource Conservation

In it for the long haul: CDFW Going Green Sustainability Initiative

Walk the Talk: CDFW Testimonials

#### Course Structure & Features: Resources

#### **DFG Climate College**

Lecture #2



Fitle: Climate 101; understanding the basics of climate science and what we can do about it

Speaker: Ellie Cohen, President and CEO, PRBO Conservation Science

Date: October 15, 2012 (Monday)

Time: 1:30 - 2:30PM

Location: DFG headquarters in Sacramento, Natural Resources Agency building Auditorium WebEx: Lecture also available to view via WebEx. We encourage DFG staff participating remotely to watch the lectures together by reserving a conference room with DSL. The powerpoint presentation will be posted in advance to minimize interruption for remote users due to WebEx or bandwidth complications. Because of a limit to the number of WebEx participants, we encourage those in the Sacramento area to attend

in person.

#### Registration for Lecture #2

DFG STAFF CLICK HERE TO REGISTER.

ALL OTHER PARTICIPANTS: If you are not a DFG staff member please email

Registrar@DFG.ca.gov with your name, email address, organization, and whether or not vou intend to participate in-person or via WebEx.

\*Note: Please register at least two days prior to the lecture. If you would like to be registered for ALL classes at once, please submit a request to Registrar@DFG.ca.gov.

#### Suggested reading materials recommended by the speaker

- EPA: www.epa.gov/climatechange excellent overview
- Skeptical Science: www.skepticalscience.com/ rebuttals to common arguments with excellent information and citations
- Climate-Smart Adaptation Principles. National Wildlife Federation. www.nwf.org/Global-Warming/Climate-Smart-Conservation/Adaptation-Principles.asox
- California Governor's Office of Planning and Research: <u>Climate Change: Just the</u> Facts

See additional resources in the "Climate Change, Ecosystems and Adaptation Resources List" provided below.

#### Speaker Biography

Ellie M. Cohen has served as President and CEO of PRBO Conservation Science (www.prbo.org) since 1999. Born and raised in Baltimore, Maryland, Ms. Cohen received her undergraduate degree with honors in Botany (focus on ecology) from Duke University. Field studies in butterfly ecology brought her to California in 1979.

She later received her Master in Public Policy degree from Harvard University's Kennedy School of Government, where she was honored with the Policy Analysis Exercise Award for highly

#### Course Structure & Features: Resources

#### Climate Science Program

Home ->> Climate and Energy ->> Climate Change ->> Climate College ->> Training Resources

- Activities
- Resources
- CDFW Climate College
- CDFW Climate Stakeholders
- ODFW Going Green
- Climate Change Case Studies
- Vulnerability Assessment Tools
- ->> For Teachers
- Western Association of Fish and Wildlife Agencies
- Director's Bulletins
- » Legislation and Policy

CDFW Climate Science and Renewable Energy Branch 1416 9th Street Sacramento, CA 95814 climatechange@wildlife.ca.gov

#### **CDFW Climate College Training Resources**

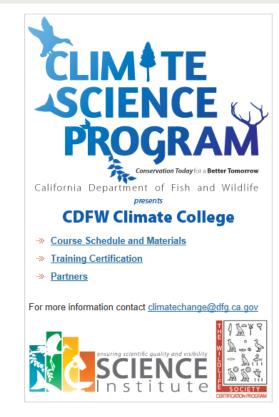
In order to increase climate change literacy among CDFW employees and our partners, the CDFW has created the Climate College to provide a foundation of knowledge on climate change. Accessing the variety of online climate change tools, literature, and other references is a very useful and important part of this climate change education. In support of this initiative CDFW along with its partners have pulled together a sampling of existing online webinars and videos related to climate change and natural resource conservation. By creating a network of existing webinars and videos, CDFW hopes to provide staff and partners with resources that will empower them to incorporate climate change into their work and to be climate leaders in California.

#### Key Repositories of Climate Training Webinars and Videos for Wildlife and Habitat

- US Forest Service Climate Change Resource Center
  - Climate change presentations

The US Forest Service provides a compendium of excellent video presentations on a variety of topics pertaining to forests, including:

- Climatology
- Vegetation
- ->> Water and Fish
- -> Case Studies
- Modeling
- Adaptation
- ->> Forests and Carbon
- **→ US Fish and Wildlife Service National Conservation Training Center** 
  - Safeguarding Wildlife from Climate Change Webinar series
    The US Fish and Wildlife Service's National Conservation Training Center is currently hosting
    a web conference series with the National Wildlife Federation focused on climate change and
    wildlife challenges. Past webinars have covered topics ranging from climate change and
    California birds, adaptation, vulnerability assessments, landscape connectivity, climate
    change communication, and more.

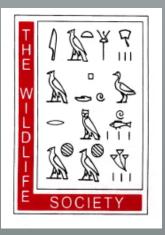


#### Course Structure & Features: Incentives

- DFW Certification
- DFW Employee Excellence Awards



TWS Certification



### The Course Begins! Lecture #1-- September 2012



Ken Alex, Governor's Office



Cliff Rechtschaffen, Governor's Office

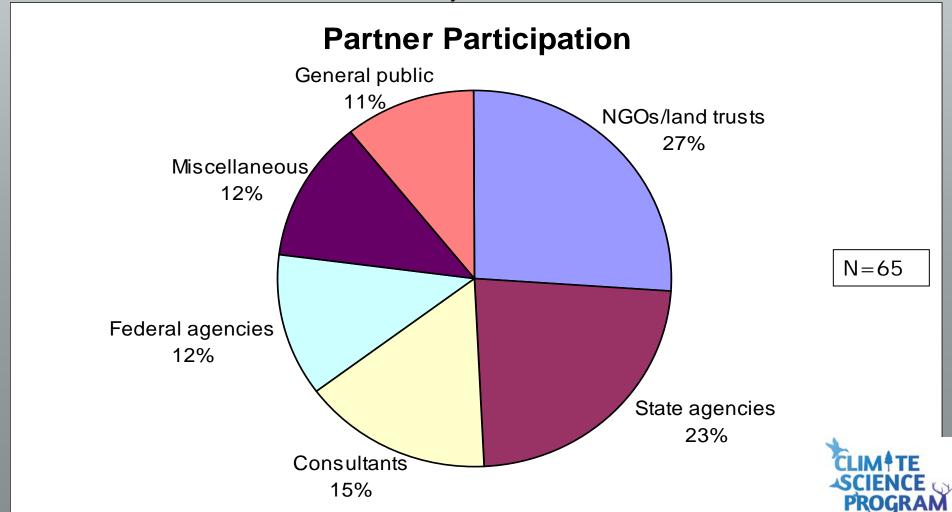


- 176 registered
  - 111 DFW (63%)
  - 65 partners (37%)
- +75% registered for full 10 month course
- DFW: All regions equally represented
- DFW: 15 Branches/Programs -All Divisions represented



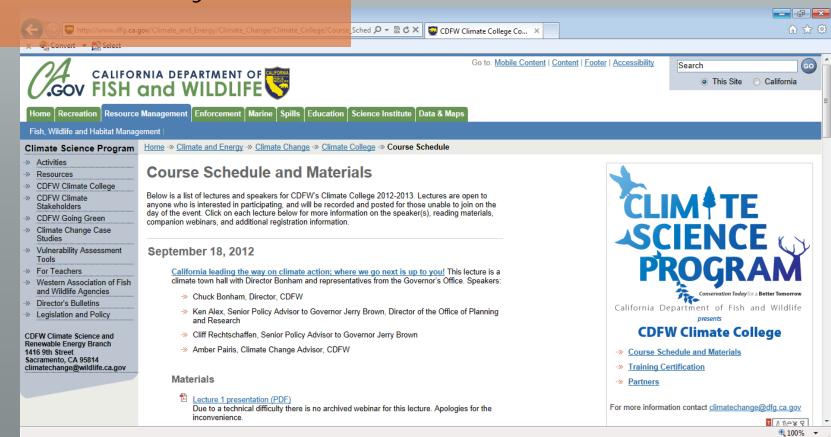
## The Course Begins! Partner Participation

Miscellaneous Category: Representatives from CA Universities, professional scientific society, Tribal representation, local government, industry (utilities), journalist



#### Where are we now?

- Lecture 8 of 9 next week
- Panel discussion in May
- Awards ceremony in June



#### Where are we now?

#### Sampling of project ideas:

Jamping of project lacas.
The evolution of climate change approaches in Natural Community Conservation Plans in California
Develop Climate Change Considerations section(s) for CDFW Salmon Vision Document
Climate Change and the Suisun Marsh: How will Fish and Wildlife Species be Impacted?
Climate Change Impacts to California Rangelands Webpage
Climate Change Impacts on the American Diver Vale
Climate Change Impacts on the Amargosa River Vole
Integrating potential climate change impacts into management plans for CDEW proporties in the San
Integrating potential climate change impacts into management plans for CDFW properties in the San  Joaquin Valley area
Climate Education for All Ages
Partnering with UC Davis Students to Assess Threatened and Endangered Species' Responses to

**Climate Change** 

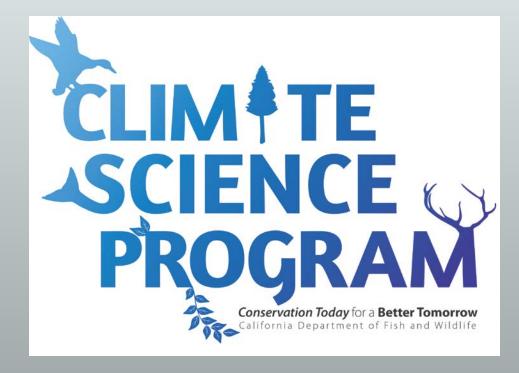
### Where are we going?



#### **Lessons Learned**

- Remote participation is a challenge
- Technology will always get the better of you
- A discussion forum requires TLC
- A ten-month attention span is only somewhat reasonable
- Thinking about how you measure the of success of a project is best done BEFORE the project takes place

### Thank you!



#### **DFW Climate Change website**

www.dfg.ca.gov/Climate\_and\_Energy/Climate\_Change/

#### **DFW Climate College**

<u>www.dfg.ca.gov/Climate\_and\_Energy/Climate\_Change/Climate\_College/</u>

Email: climatechange@wildlife.ca.gov

